

BACHELOR OF COMPUTER APPLICATIONS (BCA_NEW/BCAOL)

**ASSIGNMENTS OF BCA_NEW/BCAOL
PROGRAMME SEMESTER-V**

(July 2026 & January 2027 Session)

BCS-151, BCS-042, BCSL-159, BCOS-184, MSEI-023, BECS-184



**SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

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Important Notes

1. BCA_NEW Student need to submit the assignments to the Coordinator of your Study Centre on or before the due date.
2. BCAOL Student need to submit the assignments on LMS Portal on or before the due date.
3. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to Programme Guide.
4. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the Programme Guide.
5. The viva voce is compulsory for the assignments. For any course, if a student submitted the assignment and not attended the viva-voce, then the assignment is treated as not successfully completed and would be marked as ZERO.

Course Code : **BECS-184**
Course Title : **Data Analysis**
Assignment Number : **BCA_NEW/BCAOL(V)184/Assign/2026-27**
Maximum Marks : **100**
Last Date of Submission : **31st October, 2026 (For July 2026 Session)**
: **30th April, 2027 (For January 2027 Session)**

Note: Answer the following questions. Each question carries 20 marks

Part-I

(2 × 20 = 40 Marks)

Q1: The following table presents the list of agencies owning different number of rental cars. The annual income for each of these agencies is given here.

Agency	Cars (in ten thousand)	Revenue (in Rs Crores)
A	63.0	7.0
B	29.0	3.9
C	20.8	2.1
D	19.1	2.8
E	13.4	1.4
F	8.5	1.5

- (a) The study wanted to analyse whether there is any significant relationship between the number of rental cars that the agency owns and its annual income. Compute the correlation coefficient from the given table.
- (b) Test the significance of the correlation coefficient considering $\alpha=0.05$ and critical values obtained from t-distribution table is ± 2.776 .
- Q2:** Explain the term 'qualitative research design'. How it is different from quantitative research design? What are the various techniques of qualitative research design?

Part-II

(5 × 12 = 60 Marks)

Answer the following questions. Each question carries 12 marks.

- Q3:** Differentiate between Census and Survey data. What are the various stages involved in planning and organizing the censuses and surveys?
- Q4:** Explain the following:
- Multivariate analysis
 - Coefficient of variation
 - Data mining
 - Normal distribution curve

- Q5:** What are the characteristics of a good questionnaire? Suppose you have to conduct a study in village to assess the effectiveness of a recent government scheme. Prepare a questionnaire with atleast 10 questions to conduct this study.
- Q6:** What do you mean by the term 'Composite index'? State with illustration the procedure to work out composite index by simple ranking method.
- Q7:** Differentiate between:
- t test and f test
 - Phenomenology and Ethnography
 - Point estimate and interval estimate
 - ANOVA and MANOVA